

# **RAW SEQUENCE LISTING**

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Application Serial Number: 10591203

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# ***ENTERED***

<110> APPLICANT: University of Georgia Research Foundation, Inc  
The Ohio State University  
Maier, Robert J  
Gunn, John S  
<120> TITLE OF INVENTION: Hydrogenase Deficient Bacterial Strains  
<130> FILE REFERENCE: 31725-77460

<140> CURRENT APPLICATION NUMBER:10591203  
<141> CURRENT FILING DATE:0001-01-01  
<150> PRIOR APPLICATION NUMBER: PCT/US05/06638  
<151> PRIOR FILING DATE: 2005-03-09  
<150> PRIOR APPLICATION NUMBER: 60/549,306  
<151> PRIOR FILING DATE: 2004-03-02  
<150> PRIOR APPLICATION NUMBER: 60/604,846  
<151> PRIOR FILING DATE: 2004-08-26  
<160> NUMBER OF SEQ ID NOS: 21  
<170> SOFTWARE: PatentIn version 3.3

<210> SEQ ID NO 1  
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<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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51

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<211> LENGTH: 50  
<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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cccctaagac taatatccgc attacaaaac catatgaata tcctccttag  
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<210> SEQ ID NO 5  
<211> LENGTH: 51  
<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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aaaggagaaa aaatacgcgt tatgaataac gtgtaggctg gagctgcttc g  
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<210> SEQ ID NO 6  
<211> LENGTH: 50  
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<213> ORGANISM: Salmonella typhimurium

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<213> ORGANISM: Salmonella typhimurium

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120  
atccgcatta caaaactgca caaagcttca tgaaatcacg acgggttaatg ccgtgagaag  
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<210> SEQ ID NO 8

<211> LENGTH: 518

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

<400> SEQUENCE: 8

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120  
ttgaatcgat ggcagggggc ggccaatgaa atatcctgta acagccagga cgacaatgga  
180  
taacgccgtg atccagtgcc ataaacggac cggcgtttca tagatatagt acccctggct  
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cgtttatccc aaaccactat agttagtgtg ggcacatcat gttgcatttc ttgtctttct  
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tcacattact caaaaacata aattaattta atgttattgg tgatgttgag taaatatagc  
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<211> LENGTH: 333

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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19

<210> SEQ ID NO 11  
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<211> LENGTH: 20  
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21

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<210> SEQ ID NO 16  
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<210> SEQ ID NO 17  
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<210> SEQ ID NO 18  
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<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
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<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
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aataaagcac aactcccgtg agag  
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<210> SEQ ID NO 20  
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<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
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ggctagatac aagaatcgct aat  
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<210> SEQ ID NO 21  
<211> LENGTH: 23  
<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
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ctacctacta ccgcataatc aag  
23